BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Sri Sainagara cross roads in ward no 03

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	For Drain Desilt	Sqm							
	Sri Sayinagara								
	Cross rd-1		2	128.00	1.50		384.00		
							384.00		
	Deduct for missing/damaged						38.40		
							345.60		
	consider 30%						**103.68**	111.30	**11539.58**
	Basic Rate Rs.=	105.00							
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
		Cum							
	For Drain Desilt								
	Sri Sayinagara								
	Cross rd-1		2	128.00	0.50	0.40	51.20		
							51.20	215.28	**11022.34**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick (P.No.27,I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	For drain cover slab	Sqm							
	missing/damaged from item no.01						38.40		
							38.40	742.00	**28492.80**
	Basic Rate Rs.=	700.00							
	Add 6% A.W Rs. =	42.00							
	Total Rate Rs. =	**742.00**							
4	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead (I No-19.14,P No-143)								
	For Asphalt Road	Cum							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50	0.35	291.20		
	Berm cutting								
	Sri Sayinagara								
	Cross rd-1		2	128.00	1.00	0.20	51.20		
	Bad Reaches								
	Cross Rd A		2	145.00	1.00	0.20	58.00		
	Cross Rd B		2	155.00	1.00	0.20	62.00		
							462.40	63.94	**29565.86**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Basic Rate Rs.=	41.00							
	8Km Lead, Loading and Unloading (2*1.28*8)	20.48							
	Add 6% A.W Rs. =	2.46							
	Total Rate Rs. =	**63.94**							
5	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3(P.No-147,I No-19.64)								
	For Asphalt Road	Sqm							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50		832.00		
							832.00	6.36	**5291.52**
	Basic Rate Rs.=	6.00							
	Add 6% A.W Rs. =	0.36							
	Total Rate Rs. =	**6.36**							
6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For Asphalt Road	Cum							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50	0.15	124.80		
	Bad Reaches								
	Cross Rd A		2	145.00	1.00	0.15	43.50		
	Cross Rd B		2	155.00	1.00	0.15	46.50		
							214.80	1994.92	**428508.82**
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
7	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	For Asphalt Road	Cum							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50	0.200	166.40		
	Bad Reaches								
	Cross Rd A		2	145.00	1.00	0.200	58.00		
	Cross Rd B		2	155.00	1.00	0.200	62.00		
							286.40	2001.28	**573166.59**
	Basic Rate Rs.=	1888.00							
	Add 6% A.W Rs. =	113.28							
	Total Rate Rs. =	**2001.28**							
8	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	For Asphalt Road	Sqm							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50		832.00		
	Bad Reaches								
	Cross Rd A		2	145.00	1.00		290.00		
	Cross Rd B		2	155.00	1.00		310.00		
							1432.00	28.62	**40983.84**
	Basic Rate Rs.=	27.00							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Add 6% A.W Rs. =	1.62							
	Total Rate Rs. =	**28.62**							
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	For Asphalt Road	Cum							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50	0.05	41.60		
	Bad Reaches								
	Cross Rd A		2	145.00	1.00	0.05	14.50		
	Cross Rd B		2	155.00	1.00	0.05	15.50		
							71.60	6597.44	**472376.70**
	Basic Rate Rs.=	6224.00							
	Add 6% A.W Rs. =	373.44							
	Total Rate Rs. =	**6597.44**							
10	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	For Asphalt Road	Sqm							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50		832.00		
	Cross Rd A		1	145.00	5.00		725.00		
	Cross Rd B		1	155.00	5.50		852.50		
							2409.50	12.72	**30648.84**
	Basic Rate Rs.=	12.00							
	Add 6% A.W Rs. =	0.72							
	Total Rate Rs. =	**12.72**							
11	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)								
	For Asphalt Road	Cum							
	Sri Sayinagara								
	Cross rd-1		1	128.00	6.50	0.03	24.96		
	Cross Rd A		1	145.00	5.00	0.03	21.75		
	Cross Rd B		1	155.00	5.50	0.03	25.58		
							72.29	7753.90	**560490.66**
	Basic Rate Rs.=	7315.00							
	Add 6% A.W Rs. =	438.90							
	Total Rate Rs. =	**7753.90**							
12	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	For Asphalt Road	Sqm							
	Sri Sayinagara								

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Cross rd-1		2	128.00	0.10		25.60		
	Cross Rd A		2	145.00	0.10		29.00		
	Cross Rd B		2	155.00	0.10		31.00		
							85.60	*454.74*	***38925.74***
	Basic Rate Rs.=	429.00							
	Add 6% A.W Rs. =	25.74							
	Total Rate Rs. =	**454.74**							
								Sub Total 1 Rs.	**2231013.29**
	Add GST @ 12%								**267721.60**
								Sub Total 2 Rs.	**2498734.89**
	Miscellaneous & Rounding off								1265.11
								Total Rs.	**2500000.00**

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward 03	Yelahanka New Town Sub Division	Yelahanka Division
BBMP	BBMP	BBMP

Administrative Approval

Accorded For Rs 25 w laadvanky
Head of A/C P3726
CER NO : 189 Dt: 27.03.2020

TA CE (YNK)

Technical Sanction

Accorded For Rs25 w laadvanky
Head of A/C P3726
CER NO : 343 Dt: 29-03-2020

TA CE (YNK)

SRI SAINAGARA LAYOUT

CLIENT: BRUHAT BANGALORE MAHANAGARA PALIKE	CONSULTANT:- Silicon Consulting Engineers #SI317, 4th CROSS BEL 2nd STAGE BHARATH NAGAR BANGALORE 560 091 E-mail siliconcivilengineers@gmail.com	Assitante Engineer	Executive Engineer	Executive Engineer	Improvements to Sri Sainagara cross roads in ward no 03 Dwg no: Date Rev: R0